STR-D315

SERVICE MANUAL

US Model
Canadian Model
E Model
Australian Model

SPECIFICATIONS

Audio Power Specifications (US and Canadian Models)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 8-ohm load, both channels driven, from 40 - 20,000Hz, rated 100 watts per channel minimum RMS power, with less than 0.8% total harmonic distortion from 250 milliwatts to rated output.

Other specifications (for all models)

Amplifier section

Continuous RMS power output (8 ohms, at 40 Hz - 20 kHz less than 0.8% total harmonic distortion)
- 100W+100W
- 80W+80W (E, Australian model)

Dynamic power (at 1 kHz, IHF)
- 140W+140W (8 ohms)
- 110W+110W (8 ohms) (E, Australian model)
- 220W+220W (4 ohms)
- 150W+150W (4 ohms) (E, Australian model)

Harmonic distortion
- Less than 0.8% at rated output

Frequency response
- PHONO : RIAA equalization curve ± 0.5 dB
- CD, VIDEO, TAPE: 10 Hz - 50 kHz ± 1 dB

Inputs

	Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	2.5 mV	50 kilohms	75 dB 75 dB *(A, 2.5mV)
TAPE 1/MD TV/LD TAPE 2 MONITER	250 mV	50 kilohms	82 dB 82 dB *(A, 200mV)
CD	300 mV	50 kilohms	82 dB 82 dB *(A, 200mV)

*: 78 IHF

Outputs

REC OUT VIDEO (AUDIO) OUT	Voltage 250 mV impedance 10 kilohms
HEADPHONES	Accepts low and high impedance headphones

Tone controls
- BASS ± 8 dB at 100 Hz
- TREBLE ± 8 dB at 100 Hz

LOW BOOST
- +10 dB (at 100 Hz)

– Continued on next page –

使用時は添付資料も参照のこと
Refer to the additional documents.

FM STEREO/FM-AM RECEIVER

SONY®

Tuner section

	FM tuner section	AM tuner section
Tuning range	87.5 – 108 MHz	US, Canadian model : 530 – 1,710 kHz (10 kHz step) 531 – 1,710 kHz (9 kHz step) E model : 530 – 1,610 kHz (10 kHz step) 531 – 1,602 kHz (9 kHz step) Australian model : 531 – 1,602 kHz
Antenna terminals	300 ohms, balanced 70 ohms, unbalanced	Extrnal antenna terminal
Sensitivity at 50 dB quieting (US and Canadian models) and 40 dB (E, Australian model)	18.3 dBf, 4.5 μV(mono) 38.3 dBf, 4.5 μV(stereo)	
Usable sensitivity	11.2 dBf, 2 μV(IHF)	Loop antenna : 500 μV (at 1,000 kHz)
Signal-to-noise ratio	76 dB (mono) 70 dB (stereo)	54 dB (at 50 mV/m)
Harmonic distortion	0.3 % (mono), 0.5 % (stereo) at 1 kHz	0.5 % (at 50 mV/m, 400 Hz)
Selectivity	60 dB at 400 kHz	40 dB at 10 kHz
Separation	45 dB at 1 kHz	
Frequency response	30 Hz – 15 kHz $^{+0.5}_{-2}$ dB	

General

System
- Tuner section : PLL quartz-locked digital synthesizer system
- Preamplifier section : low-noise NF type equalizer amp
- Power amplifier section : pure complementary SEPP.

Power requirements
- US, Canadian model : 120V AC, 60 Hz
- Australian model : 240V AC, 50Hz
- E model : 120V, 220V or 240V AC, adjustable 50/60Hz

Power consumption
- US model : 186W
- Canadian model : 290 VA
- E, Australian model : 160 W
- In standby condition : 5 W

AC outlet
- US and Canadian models : One switched (120W/1A Max.)
- Australian model : 100 W switched
- E model : One switched (100 W Max.)

Dimensions
- Approx. 430×135×295 mm (w/h/d)
- (17×5 3/8 ×11 5/8 inches)

Weight
- Approx. 7.2 kg (13 lb 15 oz)

Accessories supplied
- FM wire antenna (1)
- AM loop antenna (1)
- Remote commander RM-U141 (1)
- Sony batteries SUM-3 (NS) (2)

Design and specifications are subject to change without notice

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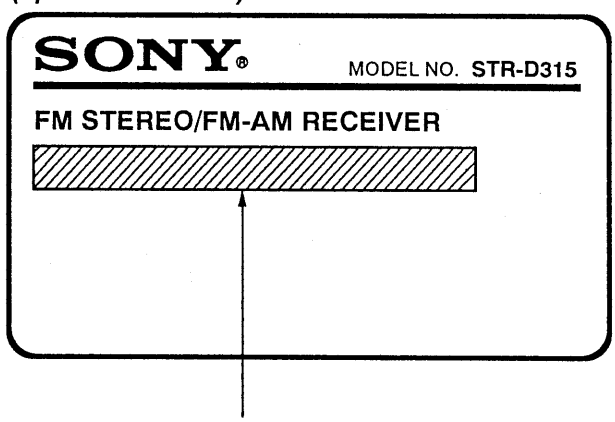
MODEL IDENTIFICATION
(Specification Label)



US, Canadian model : AC 120V, 60Hz,186W (US), 290VA(CND)
Australian model : AC 240V, 50Hz
E model : AC 120/220/240V, 50/60Hz, 160W

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

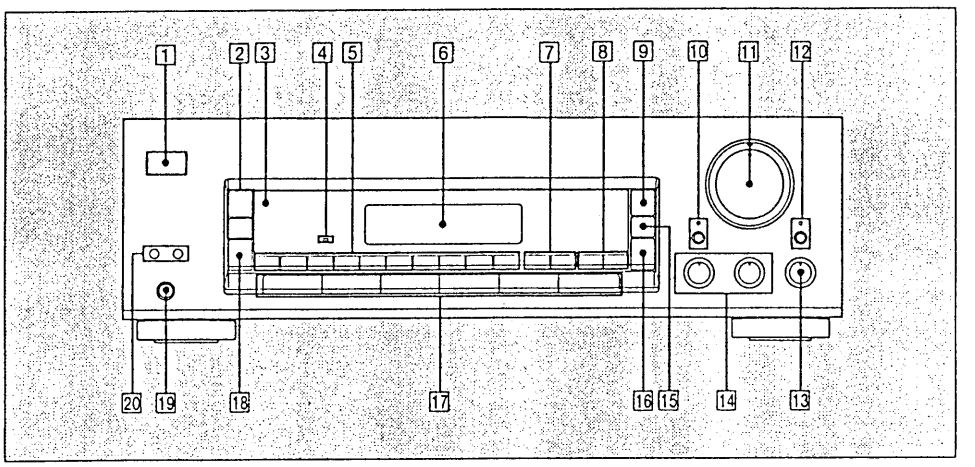
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
GENERAL

This section is extracted from instruction manual.

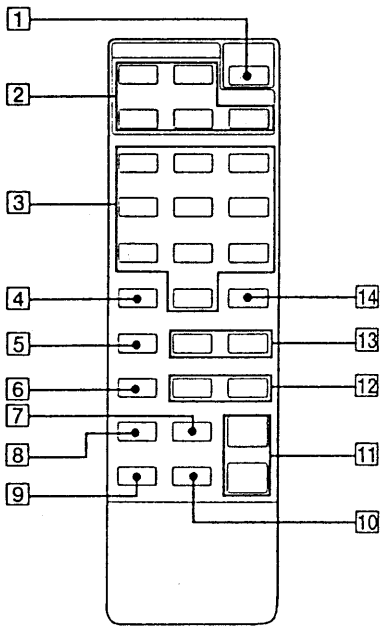
IDENTIFYING THE PARTS AND CONTROLS

FRONT PANEL



1. POWER switch
2. FM/AM band selectors
3. Remote sensor
4. TAPE 2 MONITOR indicator
5. Numeric buttons
6. Display window
7. TUNING +/ – buttons
8. PRESET TUNING +/ – buttons
9. MEMORY button
10. MUTING button and indicator
11. MASTER VOLUME control
12. LOW BOOST button and indicator
13. BALANCE control
14. BASS/TREBLE controls
15. SHIFT button
16. DIRECT button
17. Function selectors
    When the TAPE 2 MONITOR is pressed, the indicator of the last selected function also remains lit. But the TAPE 2 MONITOR button has priority and the taped or digital audio taped program can be heard.
18. FM MODE button
19. HEADPHONES jack
20. SPEAKERS A/B buttons

REMOTE COMMANDER RM-U141



1 SYSTEM OFF button

2 FUNCTION
CD, TUNER, PHONO, TV/LD, TAPE/
MD buttons

3 Numeric buttons (1 to 0)

4 SHIFT, >10 button

5 ANT TV/VTR, D (disc) SKIP button

6 CLEAR, ■ button

7 ● button

8 ▮▮ button

9 LOW BOOST button

10 MUTING button

11 VOLUME +/ − buttons

12 ◀, ▶, RMS DIRECTION buttons

13 ◀◀, ▶▶ buttons

14 RMS/START, ENTER button

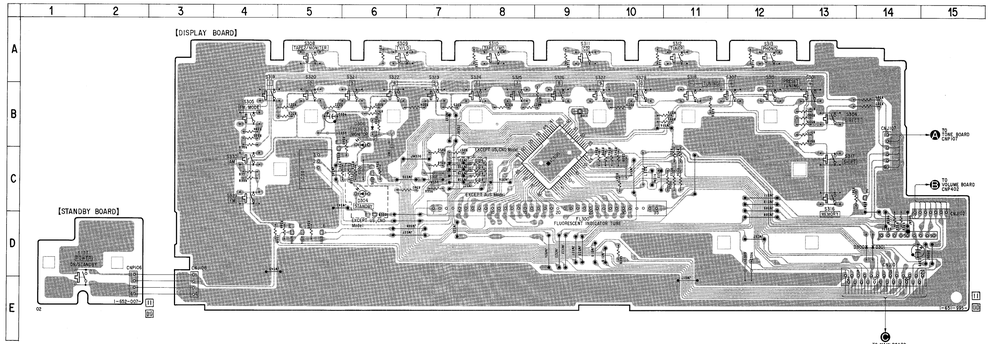
SECTION 2
DIAGRAMS

2-1. PRINTED WIRING BOARDS (DISPLAY SECTION)

• Refer to page 10 for Semiconductor Lead Layouts.

• **SEMICONDUCTOR LOCATION**

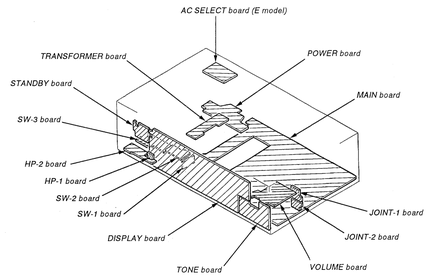
Ref. No.	Location
D300	D - 14
D301	D - 14
D302	B - 6
D304	C - 6
IC300	C - 9
IC301	C - 5
IC302	D - 14
Q300	D - 6
Q301	D - 5
Q302	C - 5
Q304	D - 5
Q305	C - 6
Q306	D - 5
Q307	C - 14



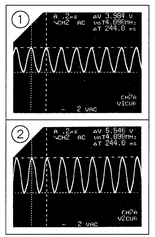
Note on Printed Wiring Boards:

- ○— : parts extracted from the component side.
- ▨▨▨ : Pattern on the side which is seen.
- Abbreviations
  CND : Canadian
  AUS : Australian

• **CIRCUIT BOARD LOCATION**



• **WAVEFORMS**



Note on Schematic Diagram :

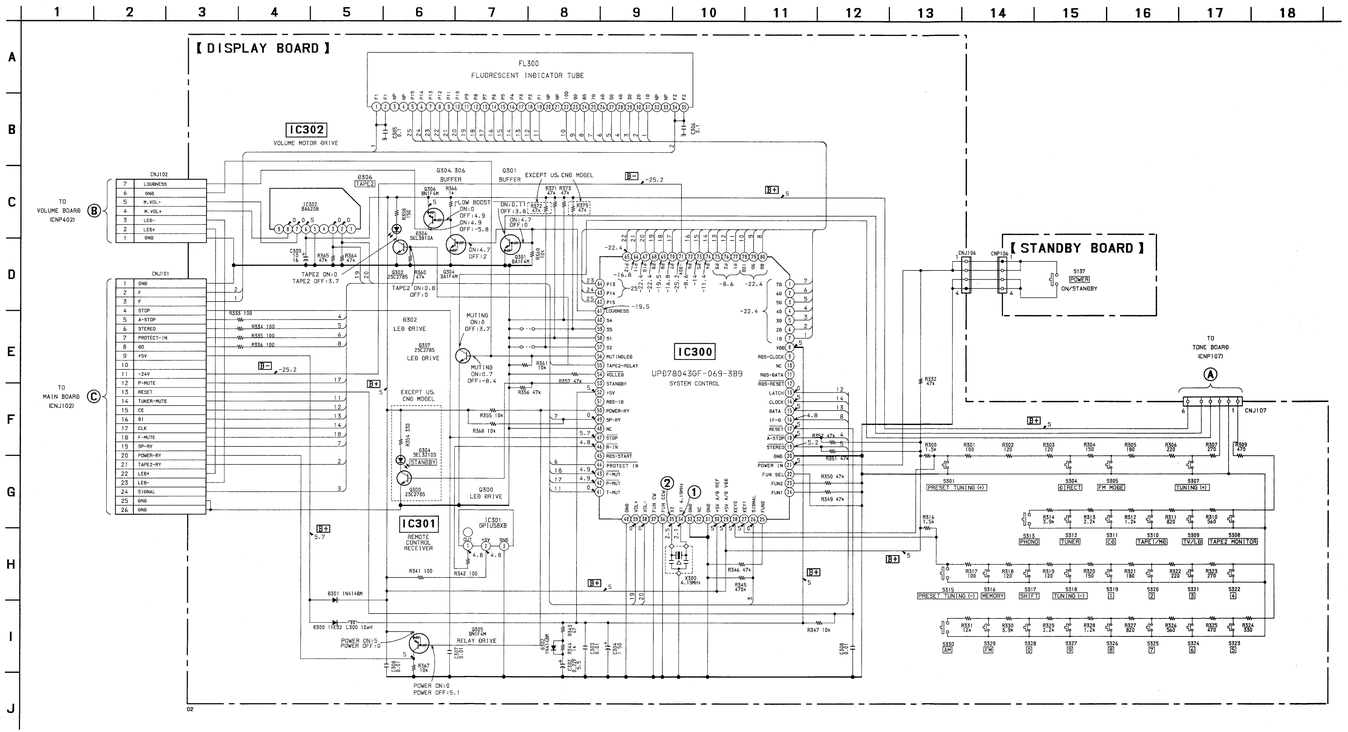
- All capacitors are in μ F unless otherwise noted. pF: μ μ F
  50WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- % : indicates tolerance.
- ▭ : nonflammable resistor.
- △ : internal component.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line
- B− : B − Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
- Abbreviations
  CND : Canadian
  AUS : Australian

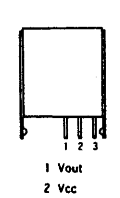
2-2. SCHEMATIC DIAGRAM (DISPLAY SECTION)

• Refer to page 20 for IC Block Diagrams.

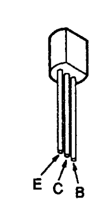


• SEMICONDUCTOR LEAD LAYOUTS

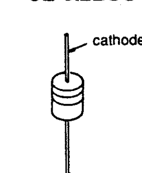
GP1U58XB



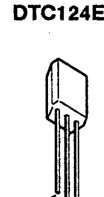
2SA988-PAFAEA



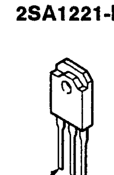
HZS4ALL
HZS6C3L
UZ-4.3BSB
UZ-6.2BSC



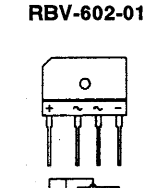
DTA124ES
DTC124ES



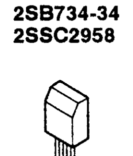
2SA1221-K



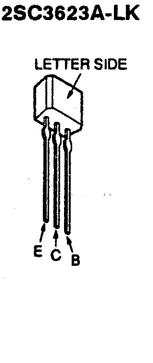
RBV-602-01



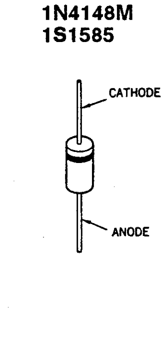
2SB734-34
2SSC2958



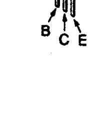
DTC114TS
2SA1175-HFE
2SC2785-HFE
2SC3623A-LK



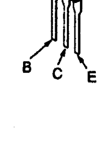
UZL-24L
UZ-12BSB
UZ-13BSB
1N4148M
1S1585



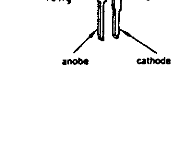
2SD2012



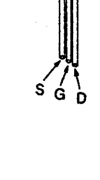
MN2488-OPY-M
MP1620-OPY-M



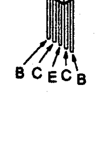
SEL3810A-CD
SEL-3210S-CD



2SK246-GR3



2SA979-FG



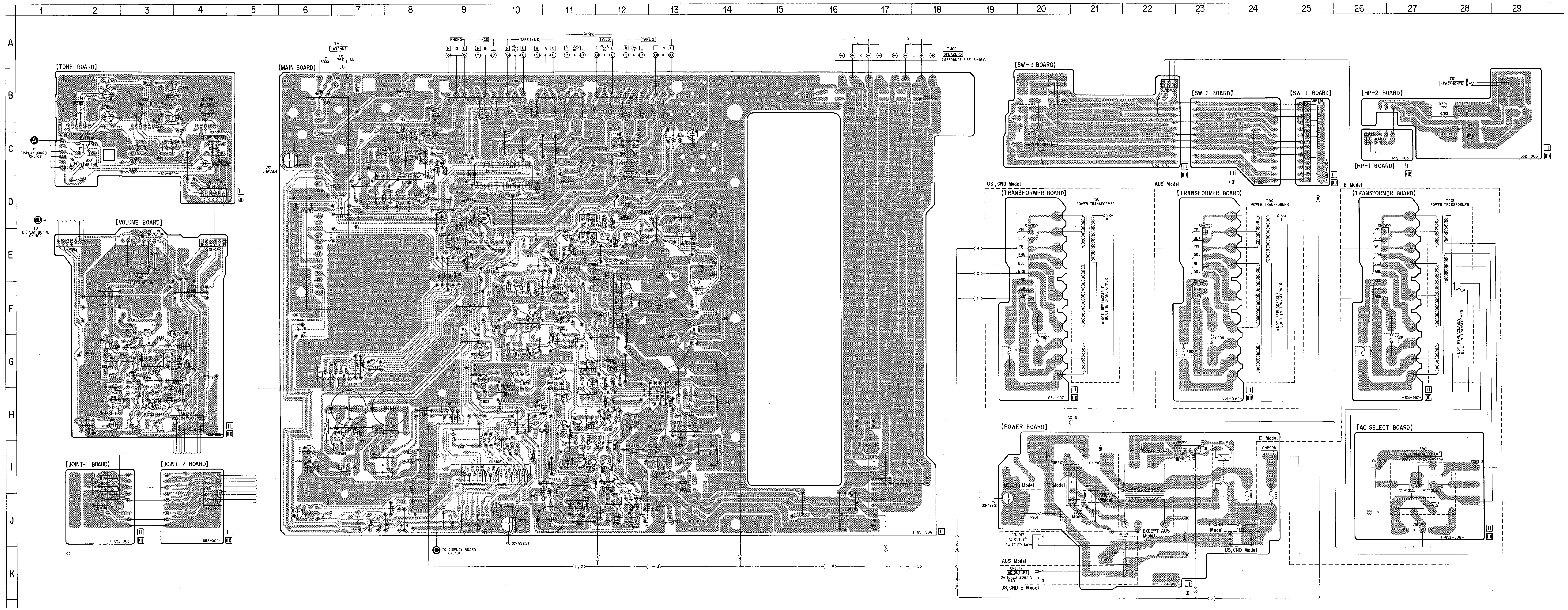
• SEMICONDUCTOR LOCATION

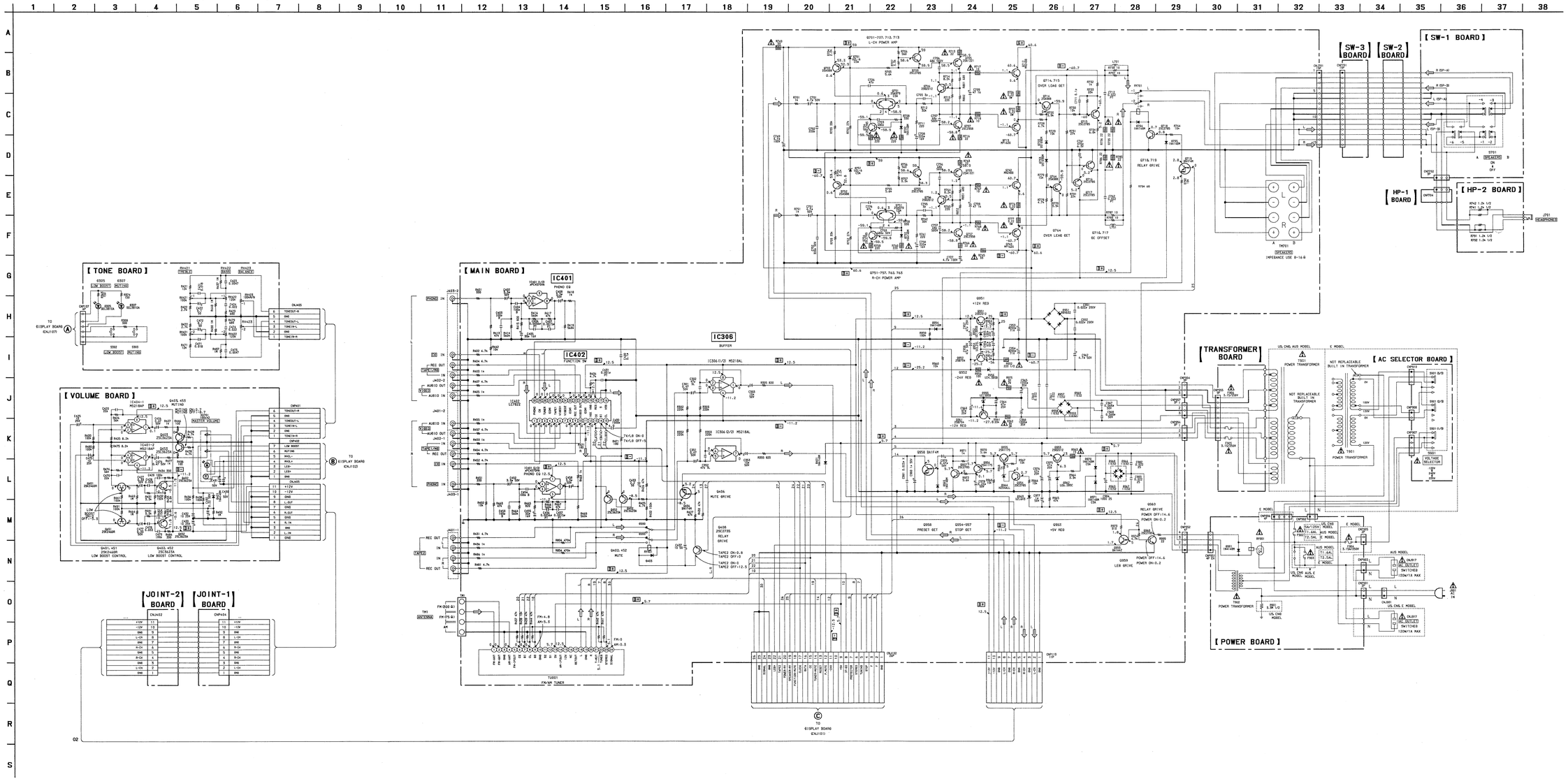
Ref. No.	Location	Ref. No.	Location
D305	C - 4	Q403	G - 2
D307	C - 2	Q406	J - 6
D401	J - 9	Q408	C - 13
D403	C - 13	Q451	G - 2
D421	H - 2		
		Q452	H - 3 (VOLUME board)
D701	F - 10		
D702	G - 10	Q452	C - 11 (MAIN board)
D703	I - 12		
D704	J - 13	Q453	G - 2
D705	H - 11	Q701	F - 10
D751	E - 10	Q702	F - 10
D752	F - 10	Q703	F - 11
D753	D - 12	Q704	G - 10
D901	I - 23	Q705	H - 11
D951	F - 12	Q706	H - 14
D952	I - 6	Q707	G - 11
D953	H - 10	Q712	I - 14
D954	G - 11	Q713	G - 14
D955	H - 7	Q714	H - 12
D956	H - 10	Q715	H - 11
D957	I - 7	Q716	G - 10
D958	I - 7	Q717	H - 10
D959	I - 7	Q718	H - 10
D960	I - 7	Q719	H - 9
D962	J - 12	Q751	E - 10
D963	J - 12	Q752	E - 10
D964	I - 12	Q753	E - 11
D965	I - 11	Q754	F - 10
D966	J - 11	Q755	D - 11
D967	J - 11	Q756	E - 14
D968	I - 11	Q757	E - 11
D969	I - 11	Q762	F - 14
D970	J - 12	Q763	D - 14
D971	J - 11	Q764	E - 12
		Q951	I - 7
IC306	E - 9	Q952	H - 9
IC401	D - 8	Q953	J - 12
IC402	D - 10	Q954	J - 12
IC404	G - 3	Q955	I - 12
		Q956	I - 11
Q401	H - 3	Q957	I - 11
Q402	H - 3 (VOLUME board)	Q958	I - 11
		Q959	G - 9
Q402	C - 11 (MAIN board)	Q960	J - 10
		Q961	I - 7

Note:

- O— : parts extracted from the component side.
- ░░░ : Pattern on the side which is seen.
- Abbreviations
  CND : Canadian
  AUS : Australian

2-3. PRINTED WIRING BOARDS (MAIN SECTION)





Note :

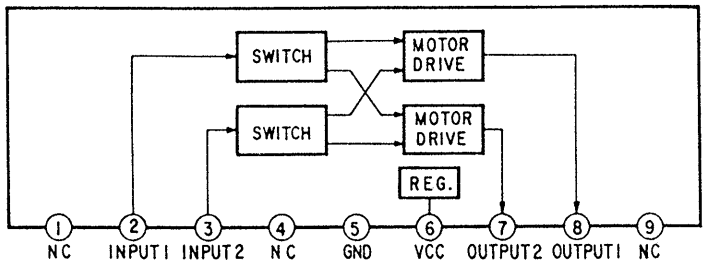
- All capacitors are in μ F unless otherwise noted. pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- % : indicates tolerance.
- ⊿ : nonflammable resistor.

Note :	Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

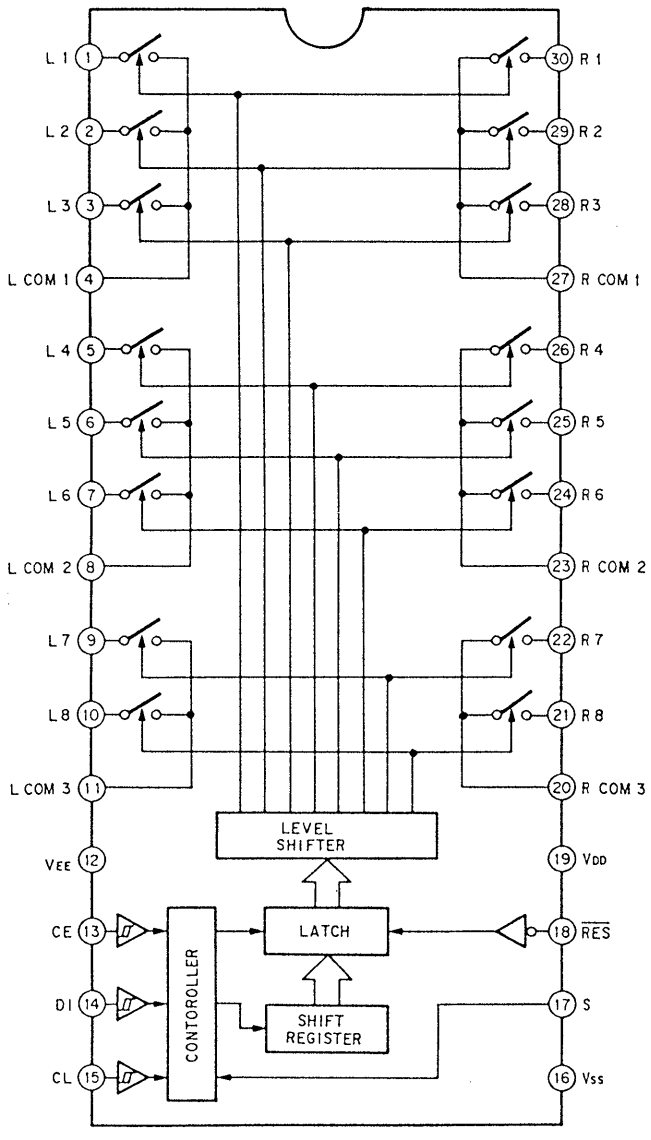
- B+ : B+ Line
- B− : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ⇨ : FM
- Abbreviations
  CND : Canadian
  AUS : Australian

• IC BLOCK DIAGRAMS

IC302 BA6208



IC402 LC7822

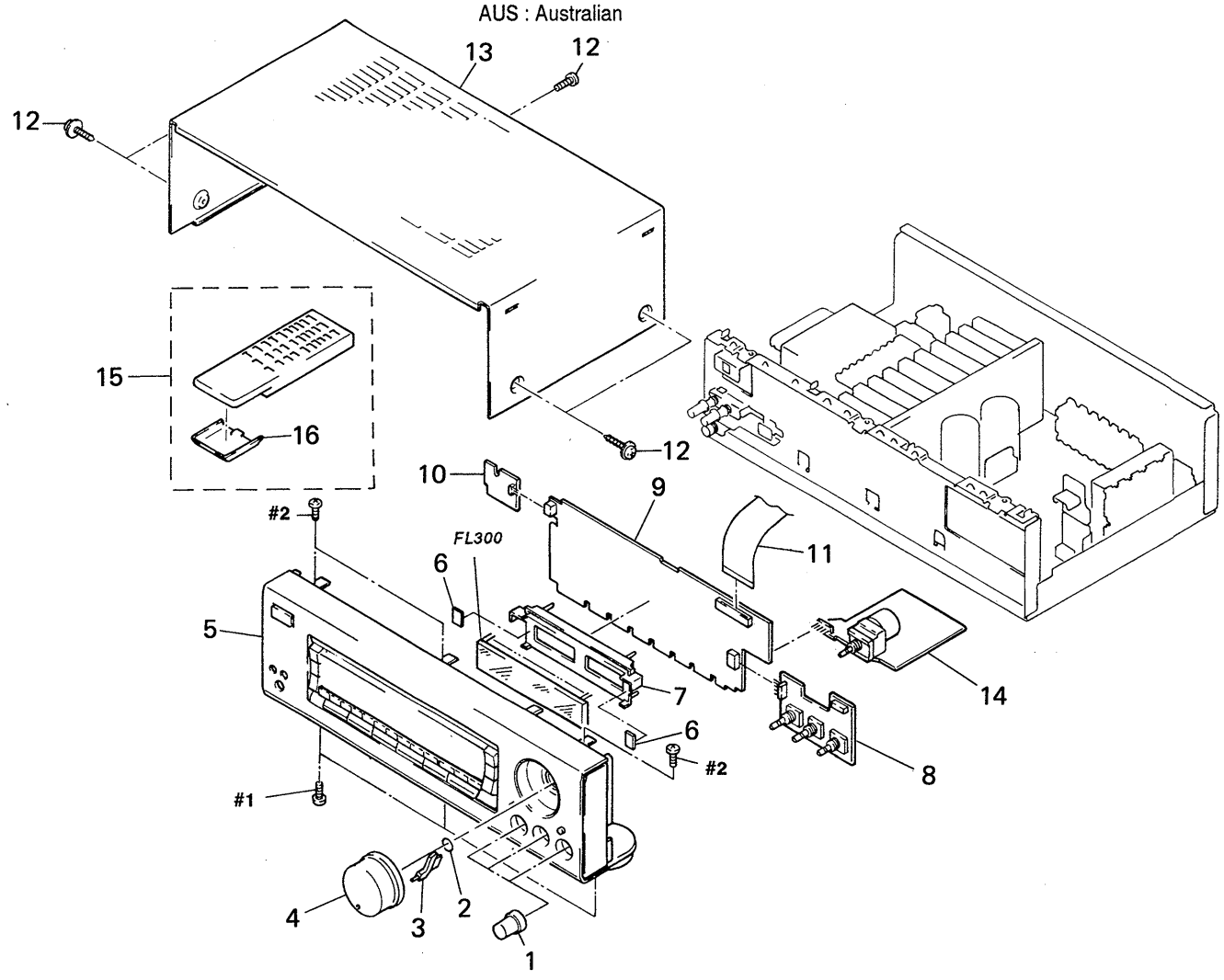


SECTION 3
EXPLODED VIEWS

NOTE :
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviations
  CND : Canadian
  AUS : Australian

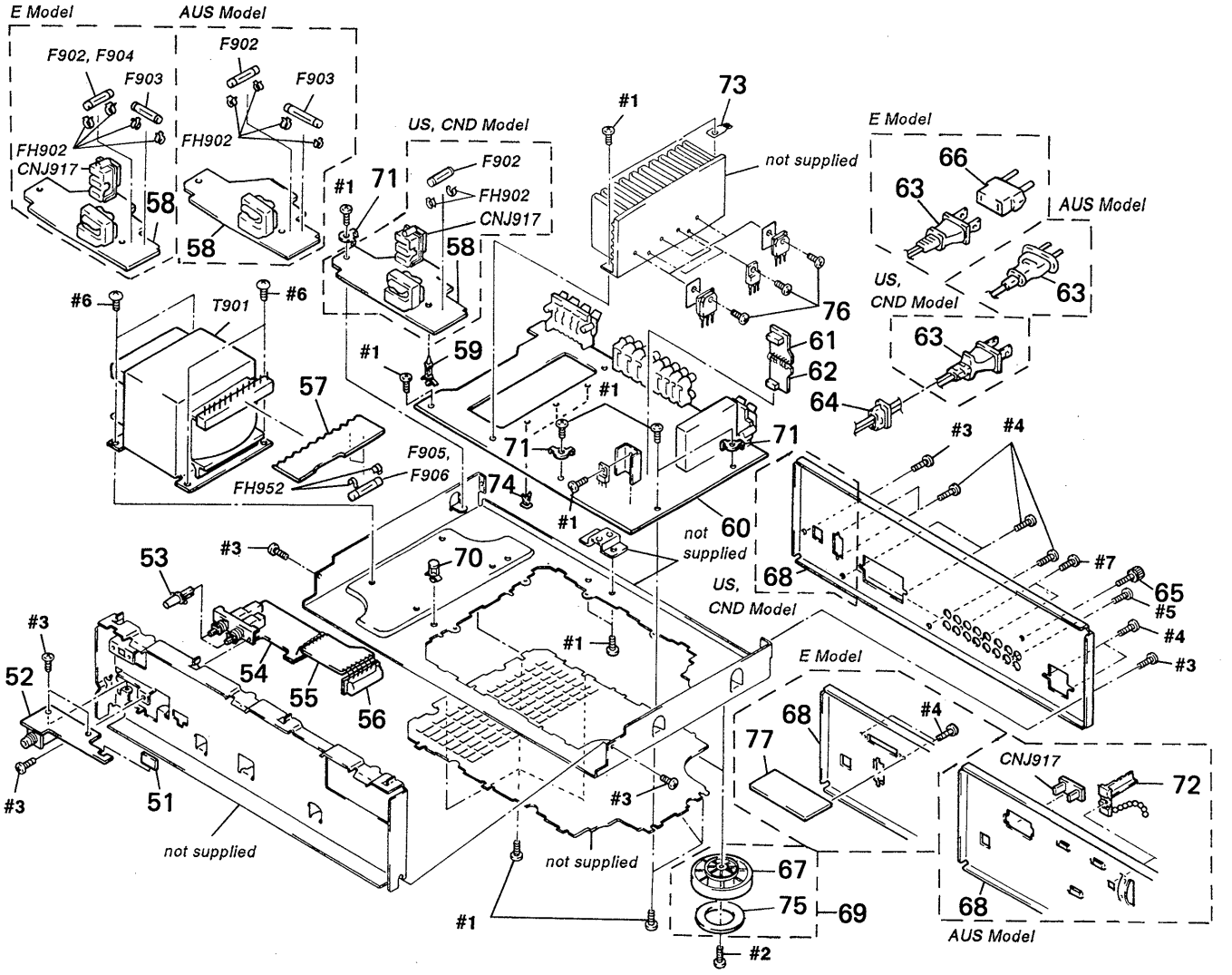
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.
Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

3-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	4-943-420-01	KNOB (DIA. 19)	
2	3-350-426-01	SPRING, RING	
3	4-958-991-01	PLATE (VOL), LIGHT GUIDE	
4	4-949-659-01	KNOB (VOL-NEW)	
5	X-4944-739-3	PANEL ASSY, FRONT(US, Canadian)	
5	X-4944-740-3	PANEL ASSY, FRONT(E, AUS)	
* 6	4-921-941-01	CUSHION (FL)	
* 7	4-943-107-11	HOLDER (FL TUBE)	
* 8	1-651-999-11	TONE BOARD	
* 9	A-4369-656-A	DISPLAY BOARD, COMPLETE(US, Canadian)	
* 9	A-4369-667-A	DISPLAY BOARD, COMPLETE(AUS)	
* 9	A-4369-670-A	DISPLAY BOARD, COMPLETE(E)	
* 10	1-652-007-11	STAND BY BOARD	
11	1-765-228-11	WIRE (FLAT TYPE) (25 CORE)	
12	3-704-366-01	SCREW (CASE) (M3X8)	
* 13	4-951-795-01	CASE	
* 14	A-4369-657-A	VOLUME BOARD, COMPLETE	
15	1-467-639-11	REMOTE COMMANDER (RM-U141)	
16	2-181-754-01	BATTERY COVER (FOR RM-U141)	
FL300	1-517-141-11	INDICATOR TUBE, FLUORESCENT	

3-2. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
* 51	1-652-005-11	HP-1 BOARD	
* 52	1-652-006-11	HP-2 BOARD	
53	4-951-801-01	BUTTON (S)	
* 54	1-652-002-11	SW-3 BOARD	
* 55	1-652-001-11	SW-2 BOARD	
* 56	1-652-000-11	SW-1 BOARD	
* 57	1-651-997-11	TRANSFORMER BOARD	
* 58	1-651-996-11	POWER BOARD	
* 59	4-924-098-31	HOLDER, PC BOARD	
* 60	A-4369-665-A	MAIN BOARD, COMPLETE(US)	
* 60	A-4369-666-A	MAIN BOARD, COMPLETE(Canadian)	
* 60	A-4369-673-A	MAIN BOARD, COMPLETE(E, AUS)	
* 61	1-652-003-11	JOINT-1 BOARD	
* 62	1-652-004-11	JOINT-2 BOARD	
⚠63	1-575-653-11	CORD, POWER(E)	
⚠63	1-690-609-11	CORD, POWER(US, Canadian)	
⚠63	1-696-848-21	CORD, POWER(AUS)	
* 64	3-703-244-00	BUSHING (2104), CORD(US, Canadian, AUS)	
64	3-703-571-11	BUSHING (S) (4516), CORD(E)	
65	4-947-010-01	SCREW, FEEDER FIXED	
⚠66	1-569-007-11	ADAPTER, CONVERSION 2P(E)	
67	3-318-688-31	FOOT (F58175S) (E, AUS)	
67	3-318-688-51	FOOT (F58175S) (US, Canadian)	
* 68	4-965-349-01	PANEL, BACK(US)	
* 68	4-965-349-11	PANEL, BACK(Canadian)	
* 68	4-965-349-21	PANEL, BACK(AUS)	
* 68	4-965-349-31	PANEL, BACK(E)	

Ref. No.	Part No.	Description	Remark
69	X-4941-291-1	FOOT ASSY (F58175S) (US, Canadian)	
69	X-4941-292-1	FOOT ASSY (F58175S) (E, AUS)	
* 70	3-346-265-31	HOLDER, PC BOARD	
* 71	4-942-204-01	PLATE, GROUND	
* 72	4-956-370-12	BAND, PLUG FIXED(AUS)	
* 73	4-953-350-01	PLATE, GROUND	
74	4-812-134-00	RIVET NYLON, 3.5	
75	4-923-836-21	CUSHION	
76	3-905-609-01	SCREW (TRANSISTOR)	
77	3-652-008-11	AC SELECTBOARD (E)	
⚠CNJ917	1-251-078-11	OUTLET, AC. (AC OUTLET) (AUS)	
⚠CNJ917	1-540-038-11	OUTLET, AC (NONPOLAR) (1P) (AC OUTLET) (E)	
⚠CNJ917	1-540-057-11	OUTLET, AC (POLAR) (AC OUTLET)	(US, Canadian)
⚠F902	1-532-259-00	FUSE(T1.6AL) (AUS)	
⚠F902	1-532-286-00	FUSE(T2.5AL) (E)	
⚠F902	1-576-109-11	FUSE(5A 125V) (US, Canadian)	
⚠F903	1-532-259-00	FUSE(T1.6AL) (AUS)	
⚠F903	1-532-286-00	FUSE(T2.5AL) (E)	
⚠F904	1-576-107-11	FUSE(3.15A 250V) (E)	
⚠F905	1-576-107-11	FUSE(3.15A 250V)	
⚠F906	1-576-107-11	FUSE(3.15A 250V)	
⚠T901	1-426-708-11	TRANSFORMER, POWER(US, Canadian)	
⚠T901	1-426-709-11	TRANSFORMER, POWER(AUS)	
⚠T901	1-426-710-11	TRANSFORMER, POWER(E)	
FH902	1-533-293-11	FUSE HOLDER	
FH952	1-533-293-11	FUSE HOLDER	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 4
ELECTRICAL PARTS LIST

AC SELECT | DISPLAY

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μA.... , uPA.... : μPA....
  uPB.... : μPB.... , uPC.... : μPC....
  uPD.... : μPD....
- CAPACITORS
  uF : μF
- COILS
  uH : μH
- Abbreviation
  AUS : Australian

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description	Remark
*	1-652-008-11	AC SELECT BOARD(E)	
		**********	
		< CONNECTOR >	
* CNP907	1-564-241-00	PIN, CONNECTOR (B4P-VH) 4P(E)	
CNP908	1-564-321-00	PIN, CONNECTOR 2P(E)	
* CNP910	1-564-687-11	PIN, CONNECTOR 3P(E)	
		< SWITCH >	
⚠S901	1-571-437-11	SWITCH, POWER VOLTAGE CHANGE (VOLTAGE SELECTOR)(E)	
**********			
*	A-4369-656-A	DISPLAY BOARD, COMPLETE(US, Canadian)	
*	A-4369-667-A	DISPLAY BOARD, COMPLETE(AUS)	
*	A-4369-670-A	DISPLAY BOARD, COMPLETE(E)	
		**********	
*	4-921-941-01	CUSHION (FL)	
*	4-943-107-11	HOLDER (FL TUBE)	
		< CAPACITOR >	
C300	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C302	1-104-905-11	CAP, DOUBLE LAYERS 0.22F	
C303	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C304	1-126-301-11	ELECT 1uF 20% 50V	
C305	1-164-159-11	CERAMIC 0.1uF 50V	
C306	1-164-159-11	CERAMIC 0.1uF 50V	
C307	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C308	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C309	1-126-157-11	ELECT 10uF 20% 16V	
		< CONNECTOR >	
CNJ101	1-766-038-11	CONNECTOR, FFC(LIF(NON-ZIF))25P	
* CNJ102	1-566-969-11	HOUSING, CONNECTOR(PC BOARD)7P	
* CNJ106	1-565-480-11	CONNECTOR, BOARD TO BOARD 4P	
* CNJ107	1-565-482-11	CONNECTOR, BOARD TO BOARD 6P	

Ref.No.	Part No.	Description	Remark
		< INDICATOR TUBE >	
D300	8-719-024-99	DIODE 11ES2-NTA2B	
D301	8-719-987-63	DIODE 1N4148M	
D302	8-719-987-63	DIODE 1N4148M	
D304	8-719-313-69	LED SEL3210S-CD(STANDDBY)(E, AUS)	
D306	8-719-313-72	LED SEL3810A-CD(TAPE 2 MONITOR)	
		< FILTER >	
FL300	1-517-141-11	INDICATOR TUBE, FLUORESCENT	
		< IC >	
IC300	8-759-259-66	IC uPD78043GF-069-3B9	
IC301	8-749-923-11	IC GP1U58XB	
IC302	8-759-962-08	IC BA6208	
		< COIL >	
L300	1-410-509-11	INDUCTOR 10uH	
		< TRANSISTOR >	
Q300	8-729-119-78	TRANSISTOR 2SC2785-HFE(E, AUS)	
Q301	8-729-900-36	TRANSISTOR DTC124ES	
Q302	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q304	8-729-900-36	TRANSISTOR DTC124ES	
Q305	8-729-900-63	TRANSISTOR DTA124ES	
Q306	8-729-900-63	TRANSISTOR DTA124ES	
Q307	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		< RESISTOR >	
R300	1-249-419-11	CARBON 1.5K 5% 1/4W	
R301	1-247-807-31	CARBON 100 5% 1/4W	
R302	1-249-406-11	CARBON 120 5% 1/4W	
R303	1-249-406-11	CARBON 120 5% 1/4W	
R304	1-247-811-31	CARBON 150 5% 1/4W	
R305	1-249-408-11	CARBON 180 5% 1/4W	

Ref. No.	Part No.	Description			Remark
R306	1-249-409-11	CARBON	220	5%	1/4W
R307	1-249-410-11	CARBON	270	5%	1/4W
R309	1-249-413-11	CARBON	470	5%	1/4W
R310	1-249-414-11	CARBON	560	5%	1/4W
R311	1-249-416-11	CARBON	820	5%	1/4W
R312	1-249-418-11	CARBON	1.2K	5%	1/4W
R313	1-249-421-11	CARBON	2.2K	5%	1/4W
R314	1-249-424-11	CARBON	3.9K	5%	1/4W
R316	1-249-419-11	CARBON	1.5K	5%	1/4W
R317	1-247-807-31	CARBON	100	5%	1/4W
R318	1-249-406-11	CARBON	120	5%	1/4W
R319	1-249-406-11	CARBON	120	5%	1/4W
R320	1-247-811-31	CARBON	150	5%	1/4W
R321	1-249-408-11	CARBON	180	5%	1/4W
R322	1-249-409-11	CARBON	220	5%	1/4W
R323	1-249-410-11	CARBON	270	5%	1/4W
R324	1-249-411-11	CARBON	330	5%	1/4W
R325	1-249-413-11	CARBON	470	5%	1/4W
R326	1-249-414-11	CARBON	560	5%	1/4W
R327	1-249-416-11	CARBON	820	5%	1/4W
R328	1-249-418-11	CARBON	1.2K	5%	1/4W
R329	1-249-421-11	CARBON	2.2K	5%	1/4W
R330	1-249-424-11	CARBON	3.9K	5%	1/4W
R331	1-249-430-11	CARBON	12K	5%	1/4W
R332	1-249-437-11	CARBON	47K	5%	1/4W
R333	1-247-807-31	CARBON	100	5%	1/4W
R334	1-247-807-31	CARBON	100	5%	1/4W
R335	1-247-807-31	CARBON	100	5%	1/4W
R336	1-247-807-31	CARBON	100	5%	1/4W
R341	1-247-807-31	CARBON	100	5%	1/4W
R342	1-247-807-31	CARBON	100	5%	1/4W
R343	1-249-401-11	CARBON	47	5%	1/4W
R344	1-249-417-11	CARBON	1K	5%	1/4W
R345	1-247-895-00	CARBON	470K	5%	1/4W
R346	1-249-437-11	CARBON	47K	5%	1/4W
R347	1-249-429-11	CARBON	10K	5%	1/4W
R349	1-249-437-11	CARBON	47K	5%	1/4W
R350	1-249-437-11	CARBON	47K	5%	1/4W
R351	1-249-437-11	CARBON	47K	5%	1/4W
R352	1-249-437-11	CARBON	47K	5%	1/4W
R354	1-249-411-11	CARBON	330	5%	1/4W(E, AUS)
R355	1-249-429-11	CARBON	10K	5%	1/4W
R356	1-249-437-11	CARBON	47K	5%	1/4W
R357	1-249-437-11	CARBON	47K	5%	1/4W
R358	1-249-411-11	CARBON	330	5%	1/4W
R360	1-249-437-11	CARBON	47K	5%	1/4W
R361	1-249-429-11	CARBON	10K	5%	1/4W
R364	1-249-437-11	CARBON	47K	5%	1/4W
R365	1-249-437-11	CARBON	47K	5%	1/4W
R366	1-249-417-11	CARBON	1K	5%	1/4W
R367	1-249-429-11	CARBON	10K	5%	1/4W
R368	1-249-429-11	CARBON	10K	5%	1/4W
R369	1-249-429-11	CARBON	10K	5%	1/4W
R371	1-249-437-11	CARBON	47K	5%	1/4W (US, Canadian, E)
R372	1-249-437-11	CARBON	47K	5%	1/4W(E, AUS)
R373	1-249-437-11	CARBON	47K	5%	1/4W
R375	1-249-437-11	CARBON	47K	5%	1/4W

< SWITCH >

S301	1-554-303-21	SWITCH, TACTILE(PRESET TUNING+)
S304	1-554-303-21	SWITCH, TACTILE(MEMORY)
S305	1-554-303-21	SWITCH, TACTILE(FM MODE)
S307	1-554-303-21	SWITCH, TACTILE(TUNING +)
S308	1-554-303-21	SWITCH, TACTILE(TAPE 2/MONITOR)
S309	1-554-303-21	SWITCH, TACTILE(TV/LD)
S310	1-554-303-21	SWITCH, TACTILE(TAPE/MD)
S311	1-554-303-21	SWITCH, TACTILE(CD)
S312	1-554-303-21	SWITCH, TACTILE(TUNER)
S313	1-554-303-21	SWITCH, TACTILE(PHONO)
S315	1-554-303-21	SWITCH, TACTILE(PRESET TUNING-)
S316	1-554-303-21	SWITCH, TACTILE(DIRECT)
S317	1-554-303-21	SWITCH, TACTILE(SHIFT)
S318	1-554-303-21	SWITCH, TACTILE(TUNING -)
S319	1-554-303-21	SWITCH, TACTILE(1)
S320	1-554-303-21	SWITCH, TACTILE(2)
S321	1-554-303-21	SWITCH, TACTILE(3)
S322	1-554-303-21	SWITCH, TACTILE(4)
S323	1-554-303-21	SWITCH, TACTILE(5)
S324	1-554-303-21	SWITCH, TACTILE(6)
S325	1-554-303-21	SWITCH, TACTILE(7)
S326	1-554-303-21	SWITCH, TACTILE(8)
S327	1-554-303-21	SWITCH, TACTILE(9)
S328	1-554-303-21	SWITCH, TACTILE(0)
S329	1-554-303-21	SWITCH, TACTILE(FM)
S330	1-554-303-21	SWITCH, TACTILE(AM)

< CRYSTAL >

X300 1-577-101-11 VIBRATOR, CERAMIC(4.19MHz)

****

* 1-652-005-11 HP-1 BOARD

****

< CONNECTOR >

CNP704 1-691-160-11 PIN, CONNECTOR 3P

****

HP-2 JOINT-1 JOINT-2 MAIN

Ref.No.	Part No.	Description			Remark
*	1-652-006-11	HP-2 BOARD			
		**********			
		< JACK >			
J701	1-568-519-41	JACK, LARGE TYPE(HEADPHONES)			
		< RESISTOR >			
R741	1-247-753-11	CARBON	1.2K	5% 1/2W	
R742	1-247-753-11	CARBON	1.2K	5% 1/2W	
R791	1-247-753-11	CARBON	1.2K	5% 1/2W	
R792	1-247-753-11	CARBON	1.2K	5% 1/2W	
**********					
*	1-652-003-11	JOINT-1 BOARD			
		**********			
		< CONNECTOR >			
* CNP404	1-750-384-11	CONNECTOR, BOARD TO BOARD 11P			
**********					
*	1-652-004-11	JOINT-2 BOARD			
		**********			
		< CONNECTOR >			
* CNJ402	1-750-383-11	CONNECTOR, BOARD TO BOARD 11P			
**********					
*	A-4369-665-A	MAIN BOARD, COMPLETE(US)			
*	A-4369-666-A	MAIN BOARD, COMPLETE(Canadian)			
*	A-4369-673-A	MAIN BOARD, COMPLETE(E, AUS)			
		**********			
	3-905-609-01	SCREW (TRANSISTOR)			
	4-812-134-00	RIVET NYLON, 3.5			
*	4-942-204-01	PLATE, GROUND(US, Canadian)			
*	4-953-350-01	PLATE, GROUND			
		< CAPACITOR >			
C301	1-124-902-00	ELECT	0.47uF	20% 50V	
C302	1-162-215-31	CERAMIC	47PF	5% 50V	
C303	1-124-907-11	ELECT	10uF	20% 50V	
C351	1-124-902-00	ELECT	0.47uF	20% 50V	
C352	1-162-215-31	CERAMIC	47PF	5% 50V	
C353	1-124-907-11	ELECT	10uF	20% 50V	
C402	1-126-962-11	ELECT	3.3uF	20% 50V	
C403	1-162-282-31	CERAMIC	100PF	10% 50V	
C404	1-162-282-31	CERAMIC	100PF	10% 50V	
C405	1-104-792-51	ELECT	33uF	20% 16V	
C406	1-130-480-00	MYLAR	0.0056uF	5% 50V	
C406	1-137-437-11	FILM	0.0056uF	5% 50V	
C407	1-130-473-00	MYLAR	0.0015uF	5% 50V	

Ref.No.	Part No.	Description			Remark
C407	1-137-365-11	FILM	0.0015uF	5% 50V	
C408	1-126-962-11	ELECT	3.3uF	20% 50V	
C420	1-164-159-11	CERAMIC	0.1uF	50V	
C430	1-162-294-31	CERAMIC	0.001uF	10% 50V	
C431	1-130-471-00	MYLAR	0.001uF	5% 50V	
C431	1-137-364-11	FILM	0.001uF	5% 50V	
C433	1-124-925-11	ELECT	2.2uF	20% 100V	
C437	1-124-907-11	ELECT	10uF	20% 50V	
C452	1-126-962-11	ELECT	3.3uF	20% 50V	
C453	1-162-282-31	CERAMIC	100PF	10% 50V	
C454	1-162-282-31	CERAMIC	100PF	10% 50V	
C455	1-104-792-51	ELECT	33uF	20% 16V	
C456	1-130-480-00	MYLAR	0.0056uF	5% 50V	
C456	1-137-437-11	FILM	0.0056uF	5% 50V	
C457	1-130-473-00	MYLAR	0.0015uF	5% 50V	
C457	1-137-365-11	FILM	0.0015uF	5% 50V	
C458	1-126-962-11	ELECT	3.3uF	20% 50V	
C701	1-124-927-11	ELECT	4.7uF	20% 100V	
C702	1-162-286-31	CERAMIC	220PF	10% 50V	
C703	1-102-116-00	CERAMIC	680PF	10% 50V	
C705	1-164-039-11	CERAMIC	3PF	0.25PF 50V	
C706	1-102-989-00	CERAMIC	68PF	5% 500V	
C707	1-102-989-00	CERAMIC	68PF	5% 500V	
C708	1-124-120-11	ELECT	220uF	20% 25V	
C709	1-124-477-11	ELECT	47uF	20% 25V	
C711	1-164-159-11	CERAMIC	0.1uF	50V	
C712	1-130-487-00	MYLAR	0.022uF	5% 50V	
C712	1-137-372-11	FILM	0.022uF	5% 50V	
C726	1-162-215-31	CERAMIC	47PF	5% 50V	
C727	1-124-927-11	ELECT	4.7uF	20% 100V	
C749	1-124-927-11	ELECT	4.7uF	20% 100V	
C751	1-124-927-11	ELECT	4.7uF	20% 100V	
C752	1-162-286-31	CERAMIC	220PF	10% 50V	
C753	1-102-116-00	CERAMIC	680PF	10% 50V	
C755	1-164-039-11	CERAMIC	3PF	0.25PF 50V	
C756	1-102-989-00	CERAMIC	68PF	5% 500V	
C757	1-102-989-00	CERAMIC	68PF	5% 500V	
C758	1-124-120-11	ELECT	220uF	20% 25V	
C759	1-124-477-11	ELECT	47uF	20% 25V	
C761	1-124-472-11	ELECT	470uF	20% 10V	
C762	1-130-487-00	MYLAR	0.022uF	5% 50V	
C762	1-137-372-11	FILM	0.022uF	5% 50V	
C776	1-162-215-31	CERAMIC	47PF	5% 50V	
C951	1-106-375-12	MYLAR	0.022uF	5% 200V	
C952	1-106-375-12	MYLAR	0.022uF	5% 200V	
C953	1-107-766-11	ELECT	8200uF	20% 71V	
C954	1-107-766-11	ELECT	8200uF	20% 71V	
C955	1-124-478-11	ELECT	100uF	20% 25V	
C956	1-124-910-11	ELECT	47uF	20% 50V	

Ref. No.	Part No.	Description			Remark
C957	1-124-477-11	ELECT	47uF	20%	25V
C958	1-124-910-11	ELECT	47uF	20%	50V
C960	1-161-494-00	CERAMIC	0.022uF		25V
C961	1-161-494-00	CERAMIC	0.022uF		25V
C962	1-124-927-11	ELECT	4.7uF	20%	100V
C963	1-124-477-11	ELECT	47uF	20%	25V
C964	1-124-477-11	ELECT	47uF	20%	25V
C965	1-126-105-11	ELECT	1000uF	20%	35V
C966	1-126-105-11	ELECT	1000uF	20%	35V
C967	1-136-163-00	MYLAR	0.068uF	10%	50V
C968	1-136-163-00	MYLAR	0.068uF	10%	50V
C975	1-124-477-11	ELECT	47uF	20%	25V
C976	1-124-477-11	ELECT	47uF	20%	25V
C977	1-124-903-11	ELECT	1uF	20%	50V
C978	1-124-464-11	ELECT	0.22uF	20%	50V
C979	1-124-902-00	ELECT	0.47uF	20%	50V
C980	1-124-903-11	ELECT	1uF	20%	50V
C981	1-161-494-00	CERAMIC	0.022uF		25V
C982	1-161-494-00	CERAMIC	0.022uF		25V
C983	1-161-494-00	CERAMIC	0.022uF		25V
C984	1-124-557-11	ELECT	1000uF	20%	25V
		< CONNECTOR >			
* CNJ102	1-764-930-11	CONNECTOR, FFC(LIF(NON-ZIF))25P			
CNJ701	1-573-095-11	SOCKET, CONNECTOR 15P			
* CNP113	1-750-384-11	CONNECTOR, BOARD TO BOARD 11P			
* CNP952	1-564-507-11	PLUG, CONNECTOR 4P			
* CNP954	1-564-104-00	PIN, CONNECTOR (B3P-VH) 3P			
* CNP956	1-564-506-11	PLUG, CONNECTOR 3P			
CNP957	1-564-506-11	PLUG, CONNECTOR 3P			
		< DIODE >			
D401	8-719-987-63	DIODE	1N4148M		
D403	8-719-987-63	DIODE	1N4148M		
D701	8-719-933-41	DIODE	HZS6C3L		
D702	8-719-987-63	DIODE	1N4148M		
D703	8-719-815-85	DIODE	1S1585		
D704	8-719-987-63	DIODE	1N4148M		
D705	8-719-987-63	DIODE	1N4148M		
D751	8-719-933-41	DIODE	HZS6C3L		
D752	8-719-987-63	DIODE	1N4148M		
D753	8-719-815-85	DIODE	1S1585		
D951	8-719-302-38	DIODE	RBV-602-01		
D952	8-719-010-78	DIODE	UZ-13BSB		
D953	8-719-002-33	DIODE	UZL-24L		
D954	8-719-987-63	DIODE	1N4148M		
D955	8-719-010-74	DIODE	UZ-12BSB		
D956	8-719-010-29	DIODE	UZ-4.3BSB		

Ref. No.	Part No.	Description		Remark
D957	8-719-024-99	DIODE	11ES2-NTA2B	
D958	8-719-024-99	DIODE	11ES2-NTA2B	
D959	8-719-024-99	DIODE	11ES2-NTA2B	
D960	8-719-024-99	DIODE	11ES2-NTA2B	
D962	8-719-010-47	DIODE	UZ-6.2BSC	
D963	8-719-933-41	DIODE	HZS6C3L	
D964	8-719-985-53	DIODE	HZS4ALL	
D965	8-719-987-63	DIODE	1N4148M	
D966	8-719-024-99	DIODE	11ES2-NTA2B	
D967	8-719-024-99	DIODE	11ES2-NTA2B	
D968	8-719-024-99	DIODE	11ES2-NTA2B	
D969	8-719-024-99	DIODE	11ES2-NTA2B	
D970	8-719-987-63	DIODE	1N4148M	
D971	8-719-987-63	DIODE	1N4148M	
		< IC >		
IC306	8-759-634-50	IC	M5218AL	
IC401	8-759-112-93	IC	uPC4570HA-1	
IC402	8-759-805-14	IC	LC7822	
		< JACK >		
J401	1-691-887-11	JACK, PIN 6P(TV/LD, TAPE 2)		
J402	1-573-028-21	JACK, PIN 4P(TAPE 1/MD, VIDEO)		
J403	1-580-825-11	JACK, PIN 6P(PHONO, CD, TAPE 1/MD)		
		< COIL >		
L701	1-420-872-00	COIL, AIR CORE		
L751	1-420-872-00	COIL, AIR CORE		
		< TRANSISTOR >		
Q402	8-729-141-30	TRANSISTOR	2SC3623A-LK	
Q406	8-729-900-63	TRANSISTOR	DTA124ES	
Q408	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q452	8-729-141-30	TRANSISTOR	2SC3623A-LK	
Q701	8-729-620-18	TRANSISTOR	2SA979-FG	
Q702	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	
Q703	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q704	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q705	8-729-122-13	TRANSISTOR	2SA1221-K	
Q706	8-729-209-15	TRANSISTOR	2SD2012	
Q707	8-729-195-82	TRANSISTOR	2SC2958-L	
Q712	8-749-010-25	TRANSISTOR	MN2488-OPY-M	
Q713	8-749-010-26	TRANSISTOR	MP1620-OPY-M	
Q714	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	
Q715	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q716	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q717	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q718	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q719	8-729-900-63	TRANSISTOR	DTA124ES	

MAIN

Ref. No.	Part No.	Description		Remark
Q751	8-729-620-18	TRANSISTOR	2SA979-FG	
Q752	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	
Q753	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q754	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q755	8-729-122-13	TRANSISTOR	2SA1221-K	
Q756	8-729-209-15	TRANSISTOR	2SD2012	
Q757	8-729-195-82	TRANSISTOR	2SC2958-L	
Q762	8-749-010-25	TRANSISTOR	MN2488-OPY-M	
Q763	8-749-010-26	TRANSISTOR	MP1620-OPY-M	
Q764	8-729-140-82	TRANSISTOR	2SA988-PAFAEA	
Q951	8-729-209-15	TRANSISTOR	2SD2012	
Q952	8-729-140-97	TRANSISTOR	2SB734-34	
Q953	8-729-209-15	TRANSISTOR	2SD2012	
Q954	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q955	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q956	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q957	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q958	8-729-900-36	TRANSISTOR	DTC124ES	
Q959	8-729-904-39	TRANSISTOR	DTC114TS	
Q960	8-729-119-78	TRANSISTOR	2SC2785-HFE	
Q961	8-729-140-97	TRANSISTOR	2SB734-34	
		< RESISTOR >		
R302	1-247-887-00	CARBON	220K 5% 1/4W	
R303	1-247-887-00	CARBON	220K 5% 1/4W	
R305	1-249-416-11	CARBON	820 5% 1/4W	
R352	1-247-887-00	CARBON	220K 5% 1/4W	
R353	1-247-887-00	CARBON	220K 5% 1/4W	
R355	1-249-416-11	CARBON	820 5% 1/4W	
R401	1-249-411-11	CARBON	330 5% 1/4W	
R402	1-249-425-11	CARBON	4.7K 5% 1/4W	
R403	1-249-417-11	CARBON	1K 5% 1/4W	
R404	1-249-425-11	CARBON	4.7K 5% 1/4W	
R405	1-249-417-11	CARBON	1K 5% 1/4W	
R407	1-249-425-11	CARBON	4.7K 5% 1/4W	
R413	1-249-437-11	CARBON	47K 5% 1/4W	
R414	1-247-897-11	CARBON	560K 5% 1/4W	
R415	1-249-416-11	CARBON	820 5% 1/4W	
R416	1-247-897-11	CARBON	560K 5% 1/4W	
R417	1-249-437-11	CARBON	47K 5% 1/4W	
R418	1-249-417-11	CARBON	1K 5% 1/4W	
R419	1-247-897-11	CARBON	560K 5% 1/4W	
R421	1-249-408-11	CARBON	180 5% 1/4W	
R425	1-249-425-11	CARBON	4.7K 5% 1/4W	
R426	1-249-437-11	CARBON	47K 5% 1/4W	
R427	1-249-437-11	CARBON	47K 5% 1/4W	
R430	1-249-437-11	CARBON	47K 5% 1/4W	
R431	1-249-425-11	CARBON	4.7K 5% 1/4W	

Ref. No.	Part No.	Description		Remark
R432	1-247-883-00	CARBON	150K 5% 1/4W	
R434	1-249-425-11	CARBON	4.7K 5% 1/4W	
R436	1-249-417-11	CARBON	1K 5% 1/4W	
R437	1-249-437-11	CARBON	47K 5% 1/4W	
R438	1-249-429-11	CARBON	10K 5% 1/4W	
R439	1-249-437-11	CARBON	47K 5% 1/4W	
R440	1-249-437-11	CARBON	47K 5% 1/4W	
R441	1-249-413-11	CARBON	470 5% 1/4W	
R442	1-249-429-11	CARBON	10K 5% 1/4W	
R444	1-249-437-11	CARBON	47K 5% 1/4W	
R451	1-249-411-11	CARBON	330 5% 1/4W	
R452	1-249-425-11	CARBON	4.7K 5% 1/4W	
R453	1-249-417-11	CARBON	1K 5% 1/4W	
R454	1-249-425-11	CARBON	4.7K 5% 1/4W	
R455	1-249-417-11	CARBON	1K 5% 1/4W	
R457	1-249-425-11	CARBON	4.7K 5% 1/4W	
R463	1-249-437-11	CARBON	47K 5% 1/4W	
R464	1-247-897-11	CARBON	560K 5% 1/4W	
R465	1-249-416-11	CARBON	820 5% 1/4W	
R466	1-247-897-11	CARBON	560K 5% 1/4W	
R467	1-249-437-11	CARBON	47K 5% 1/4W	
R468	1-249-417-11	CARBON	1K 5% 1/4W	
R469	1-247-897-11	CARBON	560K 5% 1/4W	
R471	1-249-408-11	CARBON	180 5% 1/4W	
R481	1-249-425-11	CARBON	4.7K 5% 1/4W	
R486	1-249-417-11	CARBON	1K 5% 1/4W	
R492	1-249-429-11	CARBON	10K 5% 1/4W	
R701	1-249-417-11	CARBON	1K 5% 1/4W	
R702	1-249-434-11	CARBON	27K 5% 1/4W	
R703	1-249-435-11	CARBON	33K 5% 1/4W	
R704	1-249-421-11	CARBON	2.2K 5% 1/4W	
R705	1-249-426-11	CARBON	5.6K 5% 1/4W	
R706	1-249-414-11	CARBON	560 5% 1/4W	
R707	1-249-423-11	CARBON	3.3K 5% 1/4W	
R708	1-249-411-11	CARBON	330 5% 1/4W	
⚠R709	1-249-409-11	CARBON	220 5% 1/4W	F
⚠R710	1-249-409-11	CARBON	220 5% 1/4W	F
R711	1-249-409-11	CARBON	220 5% 1/4W	
R712	1-247-866-11	CARBON	30K 5% 1/4W	
⚠R713	1-249-397-11	CARBON	22 5% 1/4W	F
R714	1-249-428-11	CARBON	8.2K 5% 1/4W	
R715	1-249-409-11	CARBON	220 5% 1/4W	
⚠R716	1-249-397-11	CARBON	22 5% 1/4W	F
⚠R717	1-249-393-11	CARBON	10 5% 1/4W	F
⚠R718	1-249-393-11	CARBON	10 5% 1/4W	F
R720	1-249-424-11	CARBON	3.9K 5% 1/4W	
⚠R726	1-208-602-11	WIREWOUND	0.22 10% 2W	F
⚠R727	1-208-602-11	WIREWOUND	0.22 10% 2W	F
R728	1-249-425-11	CARBON	4.7K 5% 1/4W	

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Ref. No.	Part No.	Description				Remark
R729	1-249-431-11	CARBON	15K	5%	1/4W	
R730	1-249-429-11	CARBON	10K	5%	1/4W	
R731	1-249-434-11	CARBON	27K	5%	1/4W	
R732	1-249-417-11	CARBON	1K	5%	1/4W	
R733	1-249-435-11	CARBON	33K	5%	1/4W	
R734	1-249-427-11	CARBON	6.8K	5%	1/4W	
⚠R735	1-249-397-11	CARBON	22	5%	1/4W	F
⚠R736	1-249-397-11	CARBON	22	5%	1/4W	F
R737	1-249-393-11	CARBON	10	5%	1/4W	
R738	1-249-393-11	CARBON	10	5%	1/4W	
R744	1-249-429-11	CARBON	10K	5%	1/4W	
⚠R745	1-249-399-11	CARBON	33	5%	1/4W	F
R749	1-249-399-11	CARBON	33	5%	1/4W	
R751	1-249-417-11	CARBON	1K	5%	1/4W	
R752	1-249-434-11	CARBON	27K	5%	1/4W	
R753	1-249-435-11	CARBON	33K	5%	1/4W	
R754	1-249-421-11	CARBON	2.2K	5%	1/4W	
R755	1-249-426-11	CARBON	5.6K	5%	1/4W	
R756	1-249-414-11	CARBON	560	5%	1/4W	
R757	1-249-423-11	CARBON	3.3K	5%	1/4W	
R758	1-249-411-11	CARBON	330	5%	1/4W	
⚠R759	1-249-409-11	CARBON	220	5%	1/4W	F
⚠R760	1-249-409-11	CARBON	220	5%	1/4W	F
R761	1-249-409-11	CARBON	220	5%	1/4W	
R762	1-247-866-11	CARBON	30K	5%	1/4W	
⚠R763	1-249-397-11	CARBON	22	5%	1/4W	F
R764	1-249-428-11	CARBON	8.2K	5%	1/4W	
R765	1-249-409-11	CARBON	220	5%	1/4W	
⚠R766	1-249-397-11	CARBON	22	5%	1/4W	F
⚠R767	1-249-393-11	CARBON	10	5%	1/4W	F
⚠R768	1-249-393-11	CARBON	10	5%	1/4W	F
R770	1-249-424-11	CARBON	3.9K	5%	1/4W	
⚠R776	1-208-602-11	WIREWOUND	0.22	10%	2W	F
⚠R777	1-208-602-11	WIREWOUND	0.22	10%	2W	F
R778	1-249-425-11	CARBON	4.7K	5%	1/4W	
R779	1-249-431-11	CARBON	15K	5%	1/4W	
R781	1-249-433-11	CARBON	22K	5%	1/4W	
⚠R785	1-249-397-11	CARBON	22	5%	1/4W	F
⚠R786	1-249-397-11	CARBON	22	5%	1/4W	F
R787	1-249-393-11	CARBON	10	5%	1/4W	
R788	1-249-393-11	CARBON	10	5%	1/4W	
R790	1-249-429-11	CARBON	10K	5%	1/4W	
R794	1-249-403-11	CARBON	68	5%	1/4W	
R801	1-249-415-11	CARBON	680	5%	1/4W	
R804	1-247-895-00	CARBON	470K	5%	1/4W	
R851	1-249-415-11	CARBON	680	5%	1/4W	
R854	1-247-895-00	CARBON	470K	5%	1/4W	
⚠R952	1-247-743-11	CARBON	220	5%	1/2W	F
R953	1-249-422-11	CARBON	2.7K	5%	1/4W	
R954	1-249-423-11	CARBON	3.3K	5%	1/4W	
R956	1-249-405-11	CARBON	100	5%	1/4W	
R959	1-249-441-11	CARBON	100K	5%	1/4W	
R960	1-249-429-11	CARBON	10K	5%	1/4W	
R961	1-249-435-11	CARBON	33K	5%	1/4W	
⚠R962	1-216-448-11	METAL OXIDE	39	5%	2W	F
⚠R963	1-249-395-11	CARBON	15	5%	1/4W	F
R964	1-249-423-11	CARBON	3.3K	5%	1/4W	
R965	1-249-437-11	CARBON	47K	5%	1/4W	
R966	1-249-429-11	CARBON	10K	5%	1/4W	
R967	1-249-429-11	CARBON	10K	5%	1/4W	
R968	1-249-417-11	CARBON	1K	5%	1/4W	
R969	1-249-429-11	CARBON	10K	5%	1/4W	
R970	1-249-426-11	CARBON	5.6K	5%	1/4W	
R971	1-249-417-11	CARBON	1K	5%	1/4W	
R972	1-249-426-11	CARBON	5.6K	5%	1/4W	
R973	1-247-830-11	CARBON	910	5%	1/4W	
R974	1-249-425-11	CARBON	4.7K	5%	1/4W	
⚠R975	1-216-448-11	METAL OXIDE	39	5%	2W	F
R999	1-249-397-11	CARBON	22	5%	1/4W	
		< RELAY >				
RY401	1-515-614-11	RELAY				
RY701	1-515-626-11	RELAY				
		< TERMINAL >				
TM1	1-537-240-51	TERMINAL BOARD (ANTENNA)				
TM701	1-537-376-11	TERMINAL BOARD (SP) (SPEAKER)				
		< TUNER >				
TU001	1-239-850-11	ENCAPSULATED COMPONENT (FCC)				(US, Canadian)
TU001	1-239-611-11	ENCAPSULATED COMPONENT (E, AUS)				
**********						
*	1-651-996-11	POWER BOARD				
		**********				
*	4-942-204-01	PLATE, GROUND				
		< JACK >				
⚠CNJ917	1-540-038-11	OUTLET, AC (NONPOLAR) (1P) (AC OUTLET) (E)				
⚠CNJ917	1-540-057-11	OUTLET, AC (POLAR) (AC OUTLET)				(US, Canadian)
		< CONNECTOR >				
CNP901	1-564-321-00	PIN, CONNECTOR 2P				
CNP902	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P				
CNP903	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P (AUS)				

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POWER STAND BY SW-1 SW-2 SW-3 TONE

Ref.No.	Part No.	Description	Remark
CNP905	1-564-320-00	PIN, CONNECTOR (B2P-VH) 2P(E)	
* CNP906	1-564-241-00	PIN, CONNECTOR (B4P-VH) 4P(E)	
* CNP951	1-564-507-11	PLUG, CONNECTOR 4P	
		< DIODE >	
D901	8-719-987-63	DIODE 1N4148M	
		< FUSE >	
⚠F902	1-532-259-00	FUSE(T1.6AL)(AUS)	
⚠F902	1-532-286-00	FUSE(T2.5AL)(E)	
⚠F902	1-576-109-11	FUSE(5A 125V)(US, Canadian)	
⚠F903	1-532-259-00	FUSE(T1.6AL)(AUS)	
⚠F903	1-532-286-00	FUSE(T2.5AL)(E)	
		< FUSE HOLDER >	
FH902	1-533-293-11	FUSE HOLDER	
		< RESISTOR >	
R901	1-202-725-00	SOLID 3.3M 10% 1/2W	(US, Canadian)
		< RELAY >	
RY901	1-515-738-11	RELAY, POWER	
		< TRANSFORMER >	
⚠T902	1-450-361-11	TRANSFORMER, POWER(US, Canadian)	
⚠T902	1-450-358-11	TRANSFORMER, POWER(E, AUS)	
**********			
*	1-652-007-11	STAND BY BOARD	
		**********	
		< CONNECTOR >	
* CNP106	1-565-295-11	PLUG, CONNECTOR 4P	
		< SWITCH >	
S137	1-554-303-21	SWITCH, TACTILE(ON/STANDBY)	
**********			
*	1-652-000-11	SW-1 BOARD	
		**********	
		< CONNECTOR >	
CNP701	1-573-109-11	PIN, CONNECTOR 15P	
**********			

Ref.No.	Part No.	Description	Remark
*	1-652-001-11	SW-2 BOARD	
		**********	
**********			
*	1-652-002-11	SW-3 BOARD	
		**********	
		< CONNECTOR >	
CNP702	1-691-173-11	CONNECTOR (BOARD TO BOARD) 3P	
		< SWITCH >	
S701	1-571-485-11	SWITCH, PUSH (2 KEY)(SPEAKERS)	
**********			
*	1-651-999-11	TONE BOARD	
		**********	
		< CAPACITOR >	
C421	1-137-440-11	FILM 0.018uF 5% 50V	
C422	1-124-463-00	ELECT 0.1uF 20% 50V	
C423	1-137-368-11	FILM 0.0047uF 5% 50V	
C471	1-137-440-11	FILM 0.018uF 5% 50V	
C472	1-124-463-00	ELECT 0.1uF 20% 50V	
C473	1-137-368-11	FILM 0.0047uF 5% 50V	
C474	1-137-372-11	FILM 0.022uF 5% 50V	
		< CONNECTOR >	
* CNJ405	1-566-968-11	HOUSING, CONNECTOR(PC BOARD)6P	
* CNP107	1-569-798-11	PLUG, CONNECTOR 6P	
		< DIODE >	
D305	8-719-313-72	LED SEL3810A-CD(LOW BOOST)	
D307	8-719-313-72	LED SEL3810A-CD(MUTING)	
		< RESISTOR >	
R308	1-249-411-11	CARBON 330 5% 1/4W	
R363	1-249-411-11	CARBON 330 5% 1/4W	
R374	1-249-411-11	CARBON 330 5% 1/4W	
R421	1-249-430-11	CARBON 12K 5% 1/4W	
R422	1-249-422-11	CARBON 2.7K 5% 1/4W	
R429	1-249-415-11	CARBON 680 5% 1/4W	
R437	1-247-903-00	CARBON 1M 5% 1/4W	
R440	1-247-903-00	CARBON 1M 5% 1/4W	
R471	1-249-430-11	CARBON 12K 5% 1/4W	
R472	1-249-422-11	CARBON 2.7K 5% 1/4W	
R479	1-249-415-11	CARBON 680 5% 1/4W	
R487	1-247-903-00	CARBON 1M 5% 1/4W	
R490	1-247-903-00	CARBON 1M 5% 1/4W	

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TONE TRANSFORMER VOLUME

Ref.No.	Part No.	Description			Remark
		< VARIABLE RESISTOR >			
RV421	1-223-362-11	RES, VAR, CARBON 100K/100K(BASS)			
RV422	1-223-363-11	RES, VAR, CARBON 125K/125K(TREBLE)			
RV423	1-238-965-21	RES, VAR, CARBON 100K/100K(BALANCE)			
		< SWITCH >			
S302	1-554-303-21	SWITCH, TACTILE(LOW BOOST)			
S303	1-554-303-21	SWITCH, TACTILE(MUTING)			
**********					
*	1-651-997-11	TRANSFORMER BOARD			
		**********			
		< CONNECTOR >			
* CNP955	1-564-905-11	PIN, CONNECTOR 9P			
		< FUSE HOLDER >			
FH952	1-533-293-11	FUSE HOLDER			
		< FUSE >			
⚠F905	1-576-107-11	FUSE(3.15A 250V)			
⚠F906	1-576-107-11	FUSE(3.15A 250V)			
**********					
*	A-4369-657-A	VOLUME BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C420	1-162-207-31	CERAMIC	22PF	5%	50V
C424	1-137-372-11	FILM	0.022uF	5%	50V
C425	1-126-096-11	ELECT	10uF	20%	35V
C426	1-124-902-00	ELECT	0.47uF	20%	50V
C427	1-124-252-00	ELECT	0.33uF	20%	50V
C428	1-130-489-00	MYLAR	0.033uF	5%	50V
C429	1-164-070-11	CERAMIC	100PF	5%	50V
C430	1-126-301-11	ELECT	1uF	20%	50V
C431	1-126-301-11	ELECT	1uF	20%	50V
C432	1-126-096-11	ELECT	10uF	20%	35V
C433	1-126-096-11	ELECT	10uF	20%	35V
C470	1-162-207-31	CERAMIC	22PF	5%	50V
C475	1-126-096-11	ELECT	10uF	20%	35V
C476	1-124-902-00	ELECT	0.47uF	20%	50V
C477	1-124-252-00	ELECT	0.33uF	20%	50V
C478	1-130-489-00	MYLAR	0.033uF	5%	50V
C479	1-164-070-11	CERAMIC	100PF	5%	50V
C492	1-124-464-11	ELECT	0.22uF	20%	50V

Ref.No.	Part No.	Description			Remark
		< CONNECTOR >			
* CNJ403	1-750-383-11	CONNECTOR, BOARD TO BOARD 11P			
* CNP401	1-566-971-11	PIN, CONNECTOR (PC BOARD) 6P			
* CNP402	1-566-972-11	PIN, CONNECTOR (PC BOARD) 7P			
		< DIODE >			
D421	8-719-987-63	DIODE 1N4148M			
		< IC >			
IC404	8-759-636-74	IC M5218AP-22			
		< TRANSISTOR >			
Q401	8-729-202-67	TRANSISTOR 2SK246-GR3			
Q402	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q403	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q451	8-729-202-67	TRANSISTOR 2SK246-GR3			
Q452	8-729-141-30	TRANSISTOR 2SC3623A-LK			
Q453	8-729-141-30	TRANSISTOR 2SC3623A-LK			
		< RESISTOR >			
R425	1-249-428-11	CARBON	8.2K	5%	1/4W
R426	1-249-438-11	CARBON	56K	5%	1/4W
R427	1-249-417-11	CARBON	1K	5%	1/4W
R428	1-249-425-11	CARBON	4.7K	5%	1/4W
R430	1-249-441-11	CARBON	100K	5%	1/4W
R431	1-249-423-11	CARBON	3.3K	5%	1/4W
R432	1-247-883-00	CARBON	150K	5%	1/4W
R433	1-249-427-11	CARBON	6.8K	5%	1/4W
R434	1-249-412-11	CARBON	390	5%	1/4W
R436	1-249-441-11	CARBON	100K	5%	1/4W
R438	1-249-441-11	CARBON	100K	5%	1/4W
R441	1-249-441-11	CARBON	100K	5%	1/4W
R446	1-247-807-31	CARBON	100	5%	1/4W
R464	1-247-903-00	CARBON	1M	5%	1/4W
R469	1-247-903-00	CARBON	1M	5%	1/4W
R475	1-249-428-11	CARBON	8.2K	5%	1/4W
R476	1-249-438-11	CARBON	56K	5%	1/4W
R477	1-249-417-11	CARBON	1K	5%	1/4W
R478	1-249-425-11	CARBON	4.7K	5%	1/4W
R480	1-249-441-11	CARBON	100K	5%	1/4W
R481	1-249-423-11	CARBON	3.3K	5%	1/4W
R482	1-247-883-00	CARBON	150K	5%	1/4W
R483	1-249-427-11	CARBON	6.8K	5%	1/4W
R484	1-249-412-11	CARBON	390	5%	1/4W
R491	1-249-441-11	CARBON	100K	5%	1/4W
R492	1-247-903-00	CARBON	1M	5%	1/4W
R496	1-247-807-31	CARBON	100	5%	1/4W

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VOLUME

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV701	1-241-850-11	RES, VAR, CARBON 100K/100K	(MASTER VOLUME)
**********			
		MISCELLANEOUS	
		**********	
11	1-765-228-11	WIRE (FLAT TYPE) (25 CORE)	
15	1-467-639-11	REMOTE COMMANDER (RM-U141)	
⚠63	1-575-653-11	CORD, POWER (E)	
⚠63	1-690-609-11	CORD, POWER (US, Canadian)	
⚠63	1-696-848-21	CORD, POWER (AUS)	
⚠66	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
⚠CNJ917	1-251-078-11	OUTLET, AC. (AC OUTLET) (AUS)	
⚠F902	1-532-259-00	FUSE (T1. 6AL) (AUS)	
⚠F902	1-532-286-00	FUSE (T2. 5AL) (E)	
⚠F902	1-576-109-11	FUSE (5A 125V) (US, Canadian)	
⚠F903	1-532-259-00	FUSE (T1. 6AL) (AUS)	
⚠F903	1-532-286-00	FUSE (T2. 5AL) (E)	
⚠F905	1-576-107-11	FUSE (3. 15A 250V)	
⚠F906	1-576-107-11	FUSE (3. 15A 250V)	
⚠T901	1-426-708-11	TRANSFORMER, POWER (US, Canadian)	
⚠T901	1-426-709-11	TRANSFORMER, POWER (AUS)	
⚠T901	1-426-710-11	TRANSFORMER, POWER (E)	
**********			

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
		**********	
	1-467-639-11	REMOTE COMMANDER (RM-U141)	
	2-181-754-01	BATTERY COVER (FOR RM-U141)	
	1-501-374-11	ANTENNA, LOOP	
	3-758-409-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (E)	
	3-758-409-21	MANUAL, INSTRUCTION (ENGLISH)	(US, Canadian, AUS)
	3-758-409-31	MANUAL, INSTRUCTION (FRENCH) (Canadian)	
*	4-952-676-01	CUSHION	
*	4-967-025-01	INDIVIDUAL CARTON	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-682-548-04	SCREW +BVTT 3X8 (S)	
#2	7-682-548-09	SCREW +BVTT 3X8 (S)	
#3	7-682-547-09	SCREW +BVTT 3X6 (S)	
#4	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#5	7-621-849-00	SCREW, TAPPING	
#6	7-682-560-04	SCREW +BVTT 4X6 (S)	
#7	7-685-546-19	SCREW +BTP 3X8 TYPE2 N-S	

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STR-D315

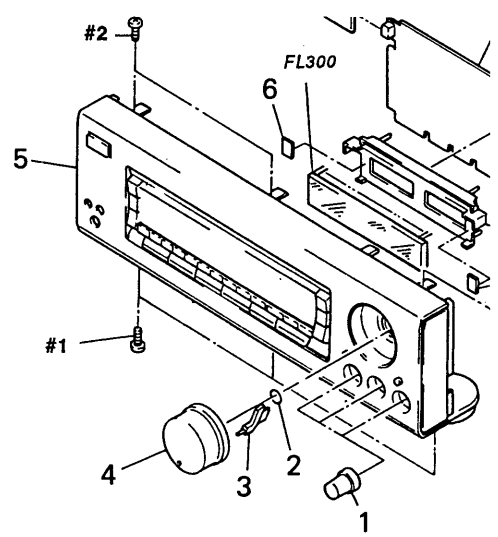
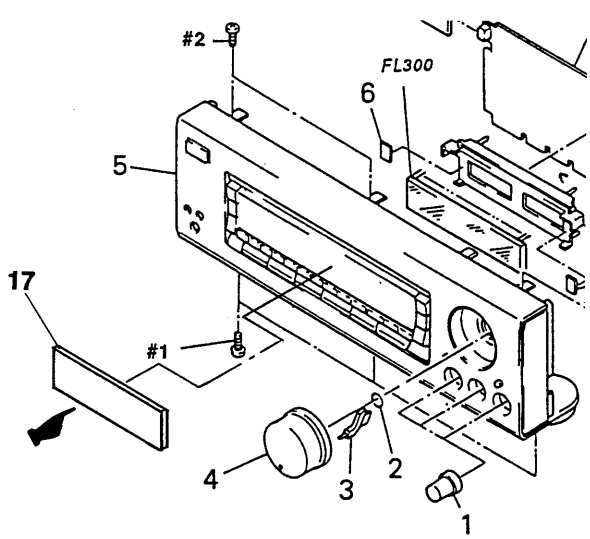
SONY
SERVICE MANUAL

US Model
Canadian Model
E Model
Australian Model

SUPPLEMENT-1

Revise your service manual as shown below due to parts supply classification has been changed.

☛ : indicates revised portion

Page	CURRENT	REVISED
21		

Ref. No.	Part No.	Description	Remark

Ref. No.	Part No.	Description	Remark
17	4-965-344-25	PLATE, INDICATION (US, Canadian)	
☛ 17	4-965-344-35	PLATE, INDICATION (E, Australian)	

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